

DRAFT

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Permit No. WA0000418

Issuance Date: _____
Effective Date: June 30, 2003
Expiration Date: June 30, 2008

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
WASTE DISCHARGE PERMIT No. WA0000418

State of Washington
DEPARTMENT OF ECOLOGY
Olympia, Washington 98504-7600

In compliance with the provisions of
The State of Washington Water Pollution Control Law
Chapter 90.48 Revised Code of Washington
and
The Federal Water Pollution Control Act
(The Clean Water Act)
Title 33 United States Code, Section 1251 et seq.

Support Terminal Services
P.O. Box 1207
Vancouver, WA 98666

<u>Facility Location:</u> Port of Vancouver Terminal 2 P.O. Box 1207 Vancouver, WA 98666	<u>Receiving Water:</u> Columbia River City of Vancouver Sewer System
<u>Water Body I.D. No.:</u> WACR 1010	<u>Discharge Location:</u> Latitude: 45° 38' 07" N Longitude: 122° 42' 11" W
<u>Industry Type:</u> Bulk Product Storage and Distribution	<u>SIC:</u> 5171

is authorized to discharge in accordance with the special and general conditions which follow.

Kelly Susewind, P.E., P.G.
Southwest Region Manager
Water Quality Program
Washington State Department of Ecology

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SUMMARY OF PERMIT REPORT SUBMITTALS

Refer to the Special and General Conditions of this permit for additional submittal requirements.

Permit Section	Submittal	Frequency	First Submittal Date
S3.A	Discharge Monitoring Report	Monthly	August 15, 2003
S3.E	Noncompliance Notification	As necessary	
S4.A	Operations and Maintenance Manual Update	1/permit cycle	December 31, 2003
G1.	Notice of Change in Authorization	As necessary	
G4.	Permit Application for Substantive Changes to the Discharge	As necessary	
G5.	Engineering Report for Construction or Modification Activities	As necessary	
G7.	Application for Permit Renewal	1/permit cycle	January 1, 2008
G8.	Notice of Permit Transfer	As necessary	
G21.	Notice of Planned Changes	As necessary	
G22.	Reporting Anticipated Non-compliance	As necessary	

SPECIAL CONDITIONS**S1. DISCHARGE LIMITATIONS****A. Process Wastewater Discharges**

All discharges and activities authorized by this permit shall be consistent with the terms and conditions of this permit.

The discharge of any of the following pollutants more frequently than, or at a level in excess of, that identified and authorized by this permit shall constitute a violation of the terms and conditions of this permit.

Beginning on the effective date of this permit and lasting through the expiration date, the Permittee is authorized to discharge tank pressure testing water at the permitted location subject to complying with the following limitations:

	EFFLUENT LIMITATIONS: OUTFALL # 001	
Parameter	Average Monthly^a	Maximum Daily^b
pH	Between the range of 6 and 9 standard units	
Any toxic ^c substance previously stored in the tank	Non-Detect ^d	Non-Detect ^d
^a The average monthly effluent limitation is defined as the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.		
^b The maximum daily effluent limitation is defined as the highest allowable daily discharge. The daily discharge means the discharge of a pollutant measured during a calendar day. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day.		
^c "Toxic" in this case is any substance listed on the priority pollutant list shown in Appendix C of the Fact Sheet.		
^d Non-detect is defined as the MDL, PQL or IDL shown in Appendix A.		

B. Municipal Sanitary Sewer System Discharges

During the period beginning on the effective date and lasting through the expiration date of this permit, the Permittee is authorized to discharge wastewater to the City of Vancouver sewer system subject to the permitting requirements of the delegated permitting authority of the City of Vancouver.

S2. MONITORING REQUIREMENTS**A. Effluent Monitoring Schedule**

The wastewater discharge from the facility shall be sampled at the tested tank. The Permittee shall monitor the effluent according to the following schedule.

Parameter	Units	Minimum Sampling Frequency	Sample Type	Test Method¹
Flow	gallons	Per Batch	Tank Volume	See S2.C below
pH	S.U.	Per Batch	Grab	See S2.B below
Toxic Substance from tank	mg/L	Per Batch	Grab	See S2.B below

B. Sampling and Analytical Procedures

Samples and measurements taken to meet the requirements of this permit shall be representative of the volume and nature of the monitored parameters, including representative sampling of any unusual discharge or discharge condition, including bypasses, upsets, and maintenance-related conditions affecting effluent quality.

Sampling and analytical methods used to meet the monitoring requirements specified in this permit shall conform to the method giving the least MDL or IDL as listed in pages VI-67 through VI-81 of the permit Writers Manual published by The Washington Department of Ecology and attached in Appendix C.

C. Flow Measurement

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the quantity of monitored flows. The devices shall be installed, calibrated, and maintained to ensure that the accuracy of the measurements are consistent with the accepted industry standard for that type of device. Frequency of calibration shall be in conformance with manufacturer's recommendations and at a minimum frequency of at least one calibration per year. Calibration records shall be maintained for at least three years.

D. Laboratory Accreditation

All monitoring data required by the Department shall be prepared by a laboratory registered or accredited under the provisions of, *Accreditation of Environmental Laboratories*, Chapter 173-50 WAC. Flow, temperature, settleable solids, conductivity, pH, and internal process control parameters are exempt from this requirement. Conductivity and pH shall be accredited if the laboratory must otherwise be registered or accredited. The Department exempts crops, soils, and hazardous waste data from this requirement pending accreditation of laboratories for analysis of these media.

S3. REPORTING AND RECORDKEEPING REQUIREMENTS

The Permittee shall monitor and report in accordance with the following conditions. The falsification of information submitted to the Department shall constitute a violation of the terms and conditions of this permit.

A. Reporting

The first monitoring period begins on the effective date of the permit. Monitoring results shall be submitted monthly. Monitoring data obtained during each monitoring period shall be summarized, reported, and submitted on a Discharge Monitoring Report (DMR) form provided, or otherwise approved, by the Department. DMR forms shall be postmarked or received no later than the 15th day of the month following the completed monitoring period, unless otherwise specified in this permit. Priority pollutant analysis data shall be submitted no later than forty-five (45) days following the monitoring period. The report(s) shall be sent to the Department of Ecology, Southwest Regional Office, P.O. Box 47775, Olympia, Washington 98504-7775.

All laboratory reports providing data for organic and metal parameters shall include the following information: sampling date, sample location, date of analysis, parameter name, CAS number, analytical method/ number, method detection limit (MDL), laboratory practical quantitation limit (PQL), reporting units, and concentration detected.

Discharge Monitoring Report forms must be submitted monthly whether or not the facility was discharging. If there was no discharge during a given monitoring period, submit the form as required with the words "no discharge" entered in place of the monitoring results.

B. Records Retention

The Permittee shall retain records of all monitoring information for a minimum of three (3) years. Such information shall include all calibration and maintenance records and all original recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit. This period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the Permittee or when requested by the Director.

C. Recording of Results

For each measurement or sample taken, the Permittee shall record the following information: (1) the date, exact place, method, and time of sampling or measurement; (2) the individual who performed the sampling or measurement; (3) the dates the analyses were performed; (4) the individual who performed the analyses; (5) the analytical techniques or methods used; and (6) the results of all analyses.

D. Additional Monitoring by the Permittee

If the Permittee monitors any pollutant more frequently than required by this permit using test procedures specified by Condition S2. of this permit, then the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Permittee's DMR.

E. Noncompliance Notification

In the event the Permittee is unable to comply with any of the terms and conditions of this permit due to any cause, the Permittee shall:

1. Immediately take action to stop, contain, and cleanup unauthorized discharges or otherwise stop the noncompliance, correct the problem and, if applicable, repeat sampling and analysis of any noncompliance immediately and submit the results to the Department within thirty (30) days after becoming aware of the violation.
2. Immediately notify the Department of the failure to comply.
3. Submit a detailed written report to the Department within thirty (30) days (five [5] days for upsets and bypasses), unless requested earlier by the Department. The report shall contain a description of the noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

Compliance with these requirements does not relieve the Permittee from responsibility to maintain continuous compliance with the terms and conditions of this permit or the resulting liability for failure to comply.

S4. OPERATION AND MAINTENANCE

The Permittee shall, at all times, properly operate and maintain all facilities to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures.

The Permittee is required to take all reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

S5. SPILL PLAN

Given the nature of this permit and the situation at the site, a spill plan will be submitted and approved as the Stormwater Pollution Prevention Plan (SWPPP) as required under the General Stormwater Permit.

S6. SOLID WASTE DISPOSAL

The Permittee shall handle and dispose of all solid waste material in such a manner as to prevent its entry into state ground or surface water.

GENERAL CONDITIONS**G1. SIGNATORY REQUIREMENTS**

All applications, reports, or information submitted to the Department shall be signed and certified.

- A. All permit applications shall be signed by either a responsible corporate officer of at least the level of vice president of a corporation, a general partner of a partnership, or the proprietor of a sole proprietorship.
- B. All reports required by this permit and other information requested by the Department shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - 1. The authorization is made in writing by a person described above and submitted to the Department.
 - 2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)
- C. Changes to authorization. If an authorization under paragraph B.2 above is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph B.2 above must be submitted to the Department prior to or together with any reports, information, or applications to be signed by an authorized representative.
- D. Certification. Any person signing a document under this section shall make the following certification:

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

G2. RIGHT OF INSPECTION AND ENTRY

The Permittee shall allow an authorized representative of the Department, upon the presentation of credentials and such other documents as may be required by law:

- A. To enter upon the premises where a discharge is located or where any records must be kept under the terms and conditions of this permit.

- B. To have access to and copy - at reasonable times and at reasonable cost - any records required to be kept under the terms and conditions of this permit.
- C. To inspect - at reasonable times - any facilities, equipment (including monitoring and control equipment), practices, methods, or operations regulated or required under this permit.
- D. To sample or monitor - at reasonable times - any substances or parameters at any location for purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act.

G3. PERMIT ACTIONS

This permit may be modified, revoked and reissued, or terminated either at the request of any interested person (including the Permittee) or upon the Department's initiative. However, the permit may only be modified, revoked and reissued, or terminated for the reasons specified in 40 CFR 122.62, 122.64 or WAC 173-220-150 according to the procedures of 40 CFR 124.5.

- A. The following are causes for terminating this permit during its term, or for denying a permit renewal application:
 - 1. Violation of any permit term or condition.
 - 2. Obtaining a permit by misrepresentation or failure to disclose all relevant facts.
 - 3. A material change in quantity or type of waste disposal.
 - 4. A determination that the permitted activity endangers human health or the environment or contributes to water quality standards violations and can only be regulated to acceptable levels by permit modification or termination [40 CFR part 122.64(3)].
 - 5. A change in any condition that requires either a temporary or permanent reduction or elimination of any discharge or sludge use or disposal practice controlled by the permit [40 CFR part 122.64(4)].
 - 6. Nonpayment of fees assessed pursuant to RCW 90.48.465.
 - 7. Failure or refusal of the Permittee to allow entry as required in RCW 90.48.090.
- B. The following are causes for modification but not revocation and reissuance except when the Permittee requests or agrees:
 - 1. A material change in the condition of the waters of the state.
 - 2. New information not available at the time of permit issuance that would have justified the application of different permit conditions.
 - 3. Material and substantial alterations or additions to the permitted facility or activities which occurred after this permit issuance.
 - 4. Promulgation of new or amended standards or regulations having a direct bearing upon permit conditions, or requiring permit revision.

5. The Permittee has requested a modification based on other rationale meeting the criteria of 40 CFR part 122.62.
 6. The Department has determined that good cause exists for modification of a compliance schedule, and the modification will not violate statutory deadlines.
 7. Incorporation of an approved local pretreatment program into a municipality's permit.
- C. The following are causes for modification or alternatively revocation and reissuance:
1. Cause exists for termination for reasons listed in A1 through A7, of this section, and the Department determines that modification or revocation and reissuance is appropriate.
 2. The Department has received notification of a proposed transfer of the permit. A permit may also be modified to reflect a transfer after the effective date of an automatic transfer (General Condition G8) but will not be revoked and reissued after the effective date of the transfer except upon the request of the new permittee.

G4. REPORTING A CAUSE FOR MODIFICATION

The Permittee shall submit a new application, or a supplement to the previous application, along with required engineering plans and reports whenever a material change to the facility or in the quantity or type of discharge is anticipated which is not specifically authorized by this permit. This application shall be submitted at least sixty (60) days prior to any proposed changes. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not relieve the Permittee of the duty to comply with the existing permit until it is modified or reissued.

G5. PLAN REVIEW REQUIRED

Prior to constructing or modifying any wastewater control facilities, an engineering report and detailed plans and specifications shall be submitted to the Department for approval in accordance with Chapter 173-240 WAC. Engineering reports, plans, and specifications shall be submitted at least one hundred eighty (180) days prior to the planned start of construction unless a shorter time is approved by Ecology. Facilities shall be constructed and operated in accordance with the approved plans.

G6. COMPLIANCE WITH OTHER LAWS AND STATUTES

Nothing in this permit shall be construed as excusing the Permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations.

G7. DUTY TO REAPPLY

The Permittee shall apply for permit renewal at least 180 days prior to the specified expiration date of this permit.

G8. TRANSFER OF THIS PERMIT

In the event of any change in control or ownership of facilities from which the authorized discharge emanate, the Permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Department.

A. Transfers by Modification

Except as provided in paragraph B below, this permit may be transferred by the Permittee to a new owner or operator only if this permit has been modified or revoked and reissued under 40 CFR 122.62(b)(2), or a minor modification made under 40 CFR 122.63(d), to identify the new Permittee and incorporate such other requirements as may be necessary under the Clean Water Act.

B. Automatic Transfers

This permit may be automatically transferred to a new Permittee if:

1. The Permittee notifies the Department at least 30 days in advance of the proposed transfer date.
2. The notice includes a written agreement between the existing and new Permittee's containing a specific date transfer of permit responsibility, coverage, and liability between them.
3. The Department does not notify the existing Permittee and the proposed new Permittee of its intent to modify or revoke and reissue this permit. A modification under the subparagraph may also be minor modification under 40 CFR 122.63. If this notice is not received, the transfer is effective on the date specified in the written agreement.

G9. REDUCED PRODUCTION FOR COMPLIANCE

The Permittee, in order to maintain compliance with its permit, shall control production and/or all discharges upon reduction, loss, failure, or bypass of the treatment facility until the facility is restored or an alternative method of treatment is provided. This requirement applies in the situation where, among other things, the primary source of power of the treatment facility is reduced, lost, or fails.

G10. REMOVED SUBSTANCES

Collected screenings, grit, solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall not be resuspended or reintroduced to the final effluent stream for discharge to state waters.

G11. DUTY TO PROVIDE INFORMATION

The Permittee shall submit to the Department, within a reasonable time, all information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Permittee shall also submit to the Department upon request, copies of records required to be kept by this permit [40 CFR 122.41(h)].

G12. OTHER REQUIREMENTS OF 40 CFR

All other requirements of 40 CFR 122.41 and 122.42 are incorporated in this permit by reference.

G13. ADDITIONAL MONITORING

The Department may establish specific monitoring requirements in addition to those contained in this permit by administrative order or permit modification.

G14. PAYMENT OF FEES

The Permittee shall submit payment of fees associated with this permit as assessed by the Department.

G15. PENALTIES FOR VIOLATING PERMIT CONDITIONS

Any person who is found guilty of willfully violating the terms and conditions of this permit shall be deemed guilty of a crime, and upon conviction thereof shall be punished by a fine of up to ten thousand dollars (\$10,000) and costs of prosecution, or by imprisonment in the discretion of the court. Each day upon which a willful violation occurs may be deemed a separate and additional violation.

Any person who violates the terms and conditions of a waste discharge permit shall incur, in addition to any other penalty as provided by law, a civil penalty in the amount of up to ten thousand dollars (\$10,000) for every such violation. Each and every such violation shall be a separate and distinct offense, and in case of a continuing violation, every day's continuance shall be deemed to be a separate and distinct violation.

G16. UPSET

Definition – “Upset” means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the Permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of the following paragraph are met.

A Permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that: 1) an upset occurred and that the Permittee can identify the cause(s) of the upset; 2) the permitted facility was being properly operated at the time of the upset; 3) the Permittee submitted notice of the upset as required in condition S3.E; and 4) the Permittee complied with any remedial measures required under S5 of this permit.

In any enforcement proceeding the Permittee seeking to establish the occurrence of an upset has the burden of proof.

G17. PROPERTY RIGHTS

This permit does not convey any property rights of any sort, or any exclusive privilege.

G18. DUTY TO COMPLY

The Permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

G19. TOXIC POLLUTANTS

The Permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if this permit has not yet been modified to incorporate the requirement.

G20. PENALTIES FOR TAMPERING

The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than two years per violation, or by both. If a conviction of a person is for a violation committed after a first conviction of such person under this Condition, punishment shall be a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than four (4) years, or by both.

G21. REPORTING PLANNED CHANGES

The Permittee shall, as soon as possible, give notice to the Department of planned physical alterations or additions to the permitted facility, production increases, or process modification which will result in: 1) the permitted facility being determined to be a new source pursuant to 40 CFR 122.29(b); 2) a significant change in the nature or an increase in quantity of pollutants discharged; or 3) a significant change in the Permittee's sludge use or disposal practices. Following such notice, this permit may be modified, or revoked and reissued pursuant to 40 CFR 122.62(a) to specify and limit any pollutants not previously limited. Until such modification is effective, any new or increased discharge in excess of permit limits or not specifically authorized by this permit constitutes a violation.

G22. REPORTING ANTICIPATED NON-COMPLIANCE

The Permittee shall give advance notice to the Department by submission of a new application or supplement thereto at least one hundred and eighty (180) days prior to commencement of such discharges, of any facility expansions, production increases, or other planned changes, such as process modifications, in the permitted facility or activity which may result in noncompliance with permit limits or conditions. Any maintenance of facilities, which might necessitate unavoidable interruption of operation and degradation of effluent quality, shall be scheduled during non-critical water quality periods and carried out in a manner approved by the Department.

G23. REPORTING OTHER INFORMATION

Where the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.

G24. REPORTING REQUIREMENTS APPLICABLE TO EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURAL DISCHARGERS

The Permittee belonging to the categories of existing manufacturing, commercial, mining, or silviculture must notify the Department as soon as they know or have reason to believe:

- A. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following “notification levels:”
 - 1. One hundred micrograms per liter (100 µg/l).
 - 2. Two hundred micrograms per liter (200 µg/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony.
 - 3. Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.21(g)(7).
 - 4. The level established by the Director in accordance with 40 CFR 122.44(f).
- B. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following “notification levels:”
 - 1. Five hundred micrograms per liter (500µg/L).
 - 2. One milligram per liter (1 mg/L).
 - 3. Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.21(g)(7).
 - 4. The level established by the Director in accordance with 40 CFR 122.44(f).

G25. COMPLIANCE SCHEDULES

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than fourteen (14) days following each schedule date.

APPENDIX A--TECHNICAL CALCULATIONS
POLLUTANT SCAN LIMIT

All concentrations shown are in µg/L unless otherwise shown

CHEMICAL	Method Number	Detector	Method IDL or MDL	Published quantitation level	QL (Ftnt. 12)
METAL					
Antimony	204.2	GFAA	3		15
Arsenic	206.2	GFAA	1		5
Beryllium	210.2	GFAA	0.2		1
Cadmium	213.2	GFAA	0.1		0.5
Chromium	218.2	GFAA	1		5
Chromium +6, Dissolved	218.4	FAA/CE	8		40
Copper	220.2	GFAA	1		5
Lead	239.2	GFAA	1		5
Mercury	1631	Cold Vapor Revision	0.2 ng/L		0.5 ng/L
Nickel	249.2	GFAA	1		5
Selenium	270.2	GFAA	2		10
Silver	272.2	GFAA	0.2		1
Thallium	279.2	GFAA	1		4
Zinc	289.2	GFAA	0.05		0.25
Cyanide (total)	335.2	Titrimetric	20		
DIOXIN					
2,3,7,8-Tetrachloro-dibenzo-p-dioxin (TCDD)	613	GC/MS	0.002		
Zinc	289.2	GFAA	0.05		0.25
Cyanide (total)	335.2	Titrimetric	20		
	335.3	Spectrophotometric	200		
2,3,7,8-Tetrachloro-debenzo-p-dioxin (TCDD)	1613	HRGC/HRMS		10 ppq	10 ppq
	613	CG/MS	0.002		
VOLATILE COMPOUNDS					
Acrolein	603	GC/FID	0.7		

CHEMICAL	Method Number	Detector	Method IDL or MDL	Published quantitation level	QL (Ftnt. 12)
Acrylonitrile	603	GC/FID	0.5		
Benzene	602	GC/PID	0.2		
Bromoform	601	GC/HECD	0.2		
Carbon Tetrachloride	624	GC/MS	2.8		
Chlorobenzene	602	GC/PID	0.2		
Chlorodibromomethane	601	GC/HECD	0.09		
Chloroethane	601	GC/HECD	0.52		
2-Chloroethyl vinyl ether	601	GC/HECD	0.13		
Chloroform	601	GC/HECD	0.05		
Dichlorobromomethane	601	GC/HECD	0.1		
1,1-Dichloroethane	601	GC/HECD	0.07		
1,2-Dichloroethane	601	GC/HECD	0.03		
Dichloroethylene	601	GC/HECD	0.13		
1,2-Dichloropropane	601	GC/HECD	0.04		
1,3-Dichloropropene					
cis-1,3-Dichloropropene	601	GC/HECD	0.34		
trans-1,3-Dichloropropene	601	GC/HECD	0.2		
Ethylbenzene	602	GC/PID	0.2		
Bromomethane	601	GC/HECD	1.18		
Chloromethane	601	GC/HECD	0.08		
Methylene Chloride	601	GC/HECD	0.25		
1,1,2,2-Tetrachloroethane	601	GC/HECD	0.03		
Tetrachloroethylene	601	GC/HECD	0.03		
Toluene	602	GC/PID	0.2		
1,2-trans-Dichloroethylene	601	GC/HECD	0.1		
1,1,1-Trichloroethane	601	GC/HECD	0.03		
1,1,2-Trichloroethane	601	GC/HECD	0.02		
Trichloroethylene	601	GC/HECD	0.12		
Vinyl Chloride	601	GC/HECD	0.18		
ACID COMPOUNDS					
2-Chlorophenol	604	GC/FID	0.31		

CHEMICAL	Method Number	Detector	Method IDL or MDL	Published quantitation level	QL (Ftnt. 12)
2,4-Dichlorophenol	604	GC/FID	0.39		
2,4-Dimethylphenol	604	GC/FID	0.32		
2 methyl 4,6-dinitrophenol	604	GC/FID	16		
2,4-Dinitrophenol	604	GC/FID	13		
2-Nitrophenol	604	GC/FID	0.45		
4-Nitrophenol	604	GC/ECD	0.7		
4 chloro-3-methylphenol	604	GC/FID	0.36		
Pentachlorophenol	604	GC/ECD	0.59		
Phenol	604	GC/FID	0.14		
2,4,6-Trichlorophenol	604	GC/ECD	0.58		
BASE/NEUTRAL COM- POUNDS					
Acenaphthene	610	HPLC	1.8		
Acenaphthylene	610	HPLC	2.3		
Anthracene	610	HPLC	0.66		
Benzidine	605	HPLC	0.08		
Benzo(a)anthracene	610	HPLC	0.013		
Benzo(a)pyrene	610	HPLC	0.023		
Benzo(ghi)perylene	610	HPLC	0.076		
Benzo(k)fluoranthene	610	HPLC	0.017		
Bis(2-chloroethoxy) methane	611	GC	0.5		
Bis(2-chloroethyl) ether	611	GC	0.3		
Bis(2-Ethylhexyl) Phthalate	611	GC	2		
4-Bromophenyl phenyl ether	625	GC/MS	1.9		
Butyl benzyl Phthalate	606	GC/ECD	0.34		
2-Chloronaphthalene	612	GC/ECD	0.94		
4-Chlorophenyl phenyl ether	611	GC/HECD	3.9		
Chrysene	610	HPLC	0.15		
Dibenzo (a,h) anthracene	610	HPLC	0.03		
1,2-Dichlorobenzene	601	GC/HECD	0.15		
1,3-Dichlorobenzene	601	GC/HECD	0.32		

CHEMICAL	Method Number	Detector	Method IDL or MDL	Published quantitation level	QL (Ftnt. 12)
1,4-Dichlorobenzene	601	GC/HECD	0.24		
3,3'-Dichlorobenzidine	605	HPLC	0.13		
Diethyl Phthalate	606	GC/ECD	0.49		
Dimethyl Phthalate	606	GC/ECD	0.29		
Di-n-Butyl Phthalate	606	GC/ECD	0.36		
2,4-Dinitrotoluene	609	GC/ECD	0.02		
Di-n-octyl Phthalate	606	GC/ECD	3		
1,2-Diphenylhydrazine	1625	GC/MS		20 = ML	20
Fluoranthene	610	HPLC	0.21		
Fluorene	610	HPLC	0.21		
Hexachlorobenzene	612	GC/ECD	0.5		
Hexachlorobutadiene	612	GC/ECD	0.34		
Hexachlorocyclopentadiene	612	GC/ECD	0.4		
Hexachloroethane	612	GC/ECD	0.03		
Indeno (1,2,3-cd) pyrene	610	HPLC	0.043		
Isophorone	609	GC/FID	5.7		
Naphthalene	625	GC/MS	1.6		
Nitrobenzene	625	GC/MS	1.9		
N-nitrosodimethylamine	607	GC/NPD	0.15		
N-nitrosodi-n-propylamine	607	GC/NPD	0.46		
N-nitrosodiphenylamine	607	GC/NPD	0.81		
Phenanthrene	610	HPLC	0.64		
Pyrene	610	HPLC	0.27		
1,2,4-Trichlorobenzene	612	GC/ECD	0.05		
PESTICIDES					
Aldrin	608	GC/ECD	0.004		
Alpha-BHC	608	GC/ECD	0.003		
Beta-BHC	608	GC/ECD	0.006		
Gamma-BHC (Lindane)	608	GC/ECD	0.004		
Delta-BHC	608	GC/ECD	0.009		
Chlordane	608	GC/ECD	0.014		

CHEMICAL	Method Number	Detector	Method IDL or MDL	Published quantitation level	QL (Ftnt. 12)
4,4'-DDT	608	GC/ECD	0.012		
4,4'-DDE (p,p-DDX)	625	GC/MS	0.004		
4,4'-DDD (p,p-TDE)	608	GC/ECD	0.011		
Dieldrin	608	GC/ECD	0.002		
Alpha-endosulfan	608	GC/ECD	0.014		
Beta-endosulfan	608	GC/ECD	0.004		
Endosulfan sulfate	608	GC/ECD	0.066		
Endrin	608	GC/ECD	0.006		
Endrin aldehyde	608	GC/ECD	0.023		
Heptachlor	608	GC/ECD	0.003		
Heptachlor epoxide	608	GC/ECD	0.083		
(BHC-hexachlorocyclo-					
'hexane)					
PCB-1242	608	GC/ECD	0.065		
PCB-1254	625	GC/MS			
PCB-1221	625	GC/MS	30		120
PCB-1232	608	GC/ECD		1.0 = USEPA CLP CRDL	1
PCB-1248	608	GC/ECD		1.0 = USEPA CLP CRDL	1
PCB-1260	608	GC/ECD		1.0 = USEPA CLP CRDL	1
PCB-1016	608	GC/ECD		1.0 = USEPA CLP CRDL	1
Toxaphene	608	GC/ECD	0.24		